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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	119	qubit and coupling and frequency and transmission and line and node and energy and state and @ad<"20040223"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 15:22
L3	118	1 and "transmission line"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 14:12
L4	118	1 and "transmission line"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 14:11
L5	119	1 and wavelength	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 14:12
L6	9	1 and coplanar	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 14:15
L7	119	1 and quantum	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 14:19
L8	87	1 and characteristic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 15:18
L9	81697	quantum and @ad<"20040223"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 15:23
L10	403	9 and qubit	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 15:24

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L11	146	10 and "transmission line"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 15:55
L12	2	"20030086138"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 16:07
L13	2815	(706/46 or 706/45 or 706/14 or 359/108 ) and @ad<"20040223"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/27 16:08


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## Controlled single-photon emission from a strongly coupled atom-cavity system

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### Abstract

Summary form only given. In quantum information processing, a photon can be produced as a superposition of atomic or ionic eigenstates, or as a superposition of states of a photon. A coupling between these different types of quantum systems can be used to perform quantum operations or quantum transmissions, e.g. to entangle two systems. To produce a photon, where single atoms or ions are entangled with individual photons, such an entanglement in a controlled way, a triggered source of photons, similar to a photon pistol, will be needed. Our scheme will lead to the controlled emission of a photon into a single, predetermined mode of the radiation field in a cavity. This event. This photon is emitted from an atom strongly coupled to an optical cavity, and the trigger is a classical light pulse. The scheme is based on QED with an adiabatic transfer technique. We consider a single atom being placed inside an empty cavity.

### Index Terms

Inspec

#### Controlled Indexing

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#### Non-controlled Indexing

[adiabatic transfer technique](#) [atomic eigenstates](#) [cavities](#) [classical light pulse](#) [controlled single-photon emission](#) [high-finesse optical cavity](#) [ionic eigenstates](#) [photonic information processing](#) [quantum operations](#) [quantum optics](#) [qubit](#) [radiation field](#) [single lambda-type three-level system](#) [strongly coupled atom-cavity system](#) [trig](#)

### Author Keywords

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IEEE JNL	IEEE Journal or Magazine
IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
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